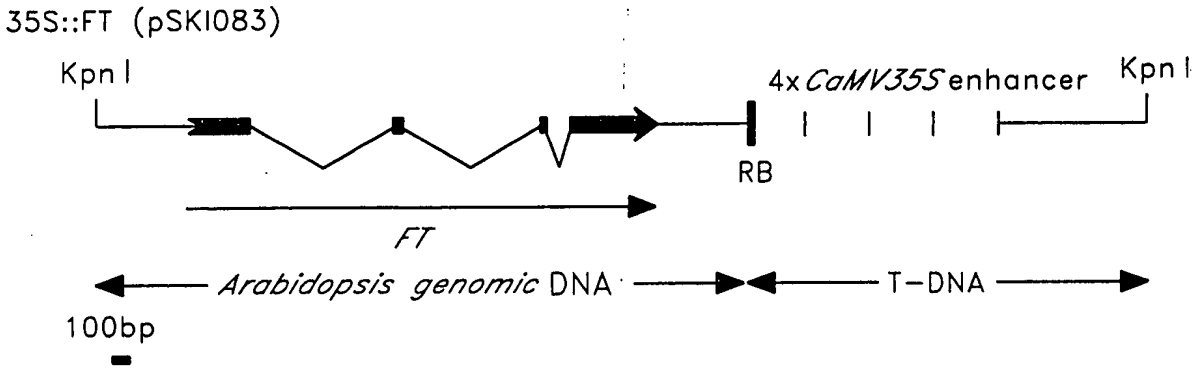
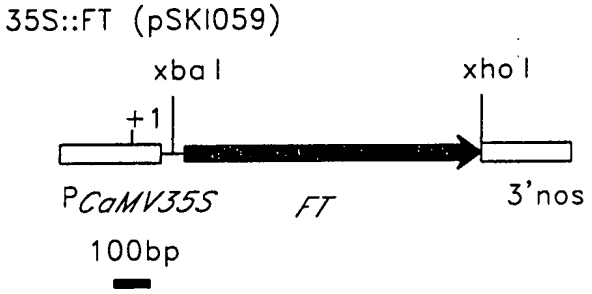
APPROVED BY DRAFTSMAN | O.G. FIG. CLASS | SUBCLASS





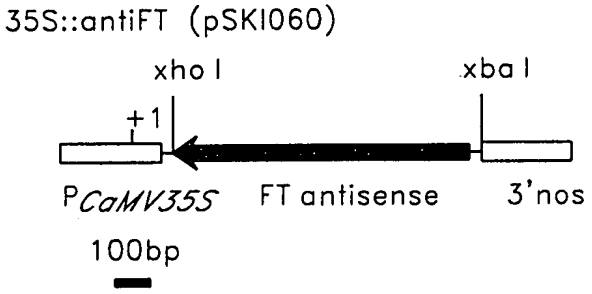


FIGURE 1

APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

FT sense insert (814 bp without vector sequences)

Xba I
TCTAGAACTAGTGGATCCCCCGGGCTCCAGGAATTCAGCACGAGGTTTGTTCAAGATCAAAG

ATGTCTATAAATATAAGAGACCCTCTTATAGTAAGCAGAGTTGTTGGAGACGTTCTTGAT
MetSerIleAsnIleArgAspProLeuIleValSerArgValValGlyAspValLeuAsp

CCGTTTAATAGATCAATCACTCTAAAGGTTACTTATGGCCAAAGAGAGGTGACTAATGGC
ProPheAsnArgSerIleThrLeuLysValThrTyrGlyGlnArgGluValThrAsnGly

TTGGATCTAAGGCCTTCTCAGGTTCAAAACAAGCCAAGAGTTGAGATTGGTGGAGAAGAC
LeuAspLeuArgProSerGlnValGlnAsnLysProArgValGluIleGlyGlyGluAsp

CTCAGGAACTTCTATACTTTGGTTATGGTGGATCCAGATGTTCCAAGTCCTAGCAACCCT
LeuArgAsnPheTyrThrLeuValMetValAspProAspValProSerProSerAsnPro

CACCTCCGAGAATATCTCCATTGGTTGGTGACTGATATCCCTGCTACAACTGGAACAACC
HisLeuArgGluTyrLeuHisTrpLeuValThrAspIleProAlaThrThrGlyThrThr

TTTGGCAATGAGATTGTGTGTTACGAAAATCCAAGTCCCACTGCAGGAATTCATCGTGTC
PheGlyAsnGluIleValCysTyrGluAsnProSerProThrAlaGlyIleHisArgVal

GTGTTTATATTGTTTCGACAGCTTGGCAGGCAAACAGTGTATGCACCAGGGTGGCGCCAG
ValPheIleLeuPheArgGlnLeuGlyArgGlnThrValTyrAlaProGlyTrpArgGln

AACTTCAACACTCGCGAGTTTGCTGAGATCTACAATCTCGGCCTTCCCGTGGCCGCAGTT
AsnPheAsnThrArgGluPheAlaGluIleTyrAsnLeuGlyLeuProValAlaAlaVal

TTCTACAATTGTCAGAGGGAGAGTGGCTGCGGAGGAAGAAGACTTTAGATGGCTTCTTCC
PheTyrAsnCysGlnArgGluSerGlyCysGlyGlyArgArgLeu***

TTTATAACCAATTGATATTGCATACTCTGATGAGATTTATGCATCTATAGTATTTTAATT
TAATAACCATTTTATGATACGAGTAACGAACGGTGATGATGCCTATAGTAGTTCAATATA
TAAGTGTGTAATAAAAATGAGAGGGGGAGGAAAATGAGAGTGTTTTACTTATATAGTGTG
TGATGCGATAATTATATTAATCTACATGAAATGAAGTGTTATATTTATAAAAAAAAAAAA

Xho I
AAAAAAAACTCGAG

FT antisense sense insert (814 bp without vector sequences)

CTCGAGTTTTTTTTTTTTTTTTTTTATAAATATAACACTTCATTTCATGTAGATTAATA
TAATTATCGCATCACACACTATATAAGTAAAACACTCTCATTTTCCTCCCCCTCTCATTT
TTATTACACACTTATATATTGAACTACTATAGGCATCATCACCGTTCGTTACTCGTATCA
TAAAATGGTTATTAAATTAAAATACTATAGATGCATAAATCTCATCAGAGTATGCAATAT
CAATTGGTTATAAAGGAAGAAGCCATCTAAAGTCTTCTTCCTCCGCAGCCACTCTCCCTC
TGACAATTGTAGAAAACTGCGGCCACGGGAAGGCCGAGATTGTAGATCTCAGCAAACTCG
CGAGTGTTGAAGTTCTGGCGCCACCCTGGTGCATACACTGTTTGCCTGCCAAGCTGTCGA
AACAATATAAACACGACACGATGAATTCCTGCAGTGGGACTTGGATTTTCGTAACACACA
ATCTCATTGCCAAAGGTTGTTCCAGTTGTAGCAGGGATATCAGTCACCAACCAATGGAGA
TATTCTCGGAGGTGAGGGTTGCTAGGACTTGGAACATCTGGATCCACCATAACCAAAGTA
TAGAAGTTCCTGAGGTCTTCTCCACCAATCTCAACTCTTGGCTTGTTTTGAACCTGAGAA
GGCCTTAGATCCAAGCCATTAGTCACCTCTCTTTGGCCATAAGTAACCTTTAGAGTGATT
GATCTATTAAACGGATCAAGAACGTCTCCAACAACTCTGCTTACTATAAGAGGGTCTCTT
ATATTTATAGACATCTTTGATCTTGAACAAACCTCGTGCTGAATTCCTGCAGCCCGGGGG

Xba I
ATCCACTAGTTCTAGA

FIGURE 2

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O.G. FIG.
CLASS
SUBCLASS

FIGURE 3A

```
  1  M---.....DPLIV.RVVGDVLD.F.....L.V.YG...VTN-G..L.PSQV.NKPR-VEI.G.DLR        At FT
  1  M........PLI.GRVVGDVLD.F.PT....V.Y..K.V.N-G.EL.PS.V..KPR-VEI.G.DLR        At TFL1
  1  MAA-----..DPLI.GRVVGDVLD.F.PT....V.Y..K.V.N-G.EL.PS.V..KPR-VEI.G.DLR     At E12A11
  1  MAA.......PL....V..--------P...L.V.YG...V...G..L.P.QV.N.P......G.D..     Rn HCNP

 63  ..YTLVM.DPD.PSPS.P.LRE.LHWLV.DIP.TT...FG.EIV.YE.P.P.--.GIHR.VF.LFRQ     At FT
 66  ...TLVM.DPD.P.PSDP.L.E.LHW.V..IPGTTD..FGKE.V.YE.PRP.--.GIHR.VFVLFRQ     At TFL1
 61  .LYTLVMTDPDAPSPS.P..REW.HW.VVDIPG.T..S.GKEI..Y..PRPP--.GIHRY..VLFRQ     At E12A11
 62  .LYTLV.TDPDAPS..DP..REW H.LVV...G.-D.S.G.....Y....PP...G.HRYV.....Q

128  ..R----------.....-G-.R.NFNTR.FA..Y.LGLPVAAVF.N.QRE.....RR------..     At FT
131  .QR----------.....G.SR..FNTR.FA..YDLGLPVAAVF.NAQRE.--A.RR-----R.      At TFL1
126  ...-------..L....G.SR.NF.TR.FA...DLGLPVA.VF.NAQRE.--A.RR-----R.       At E12A11
128  .Q........L....G..R..F....F...Y.LG.PVA...F.AQRE.............            Rn HCNP
```

FIGURE 3C

```
S I N I - - - R D P L    At FT
E N M G T R V I E P L    At TFL1
A A K V S - - S D P L    Am CEN
A A S - - - - V D P L    At E12A11
A A D I S Q W A G P L    Rn HCNP
P V D L S K W S G P L    Hs HCNP
```

APPROVED BY DRAFTSMAN | O.G. FIG. | CLASS | SUBCLASS

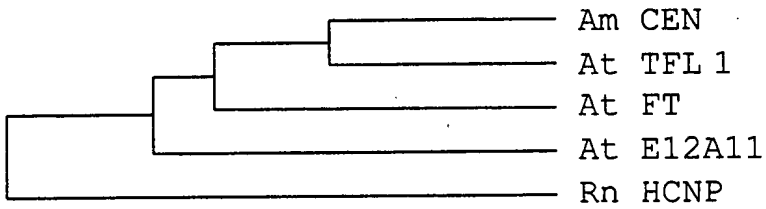

FIGURE 3B